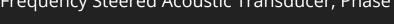
Frequency Steered Acoustic Transducer, Phase I



NASA

Completed Technology Project (2010 - 2010)

Project Introduction

This Small Business Innovation Research Phase I project is to develop, fabricate, and characterize a novel frequency steered acoustic transducer (FSAT) for the structural health monitoring of aerospace structures for impacts, damage, and leakage. A single compact, cost effective FSAT is expected to replace high-element-count phase arrays, significantly reducing cost, weight, size, and power requirements for multiple channel data handling, wiring, electronics, and powering. FSAT will allow for permanent continuous leakage detection and localization of simple and complex structures.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
Genziko, Inc.	Lead Organization	Industry	Alpharetta, Georgia
Johnson Space Center(JSC)	Supporting Organization	NASA Center	Houston, Texas

Primary U.S. Work Locations	
Georgia	Texas



Frequency Steered Acoustic Transducer, Phase I

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Small Business Innovation Research/Small Business Tech Transfer

Frequency Steered Acoustic Transducer, Phase I





Completed Technology Project (2010 - 2010)

Project Transitions

January 2010: Project Start



July 2010: Closed out

Closeout Documentation:

• Final Summary Chart(https://techport.nasa.gov/file/140099)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Genziko, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Craig D Near

Co-Investigator:

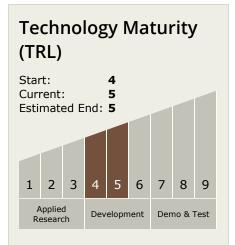
Craig Near



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Completed Technology Project (2010 - 2010)



Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └─ TX08.1 Remote Sensing Instruments/Sensors
 └─ TX08.1.5 Lasers

Target Destinations

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System

